

1984 Embiid cultures

SPAIN N. AFRICA, TURKEY

C-1 SPAIN: 5 km SE Pozuelo de Calatrava 640 M

III-12-84 TL Embia fuentei. Rocky hill within sight of town (first hill S.E.). Very cold, clear day. Embiids immobilized in "nests" on under surface of stones, grass bases at stone edge. Very common.

About 50 in culture. Scrub oaks in pasture slopes

Rocky = crystalline sandstone. Wheat on flats. embiids about half grown - overwintering stage.

C-2 SPAIN: 10 Mi NW Vico de Marquez 666 M III-12

+
2A (near reservoir, shepherd + goats, photos). Scattered oaks (bush-like) on rocky hill pasture. Embiids common under stones prob = C-1 photos of webs.

2A may be miss-labelled.

C-3 SPAIN: 5 km SW Alaurin de la Torre III-12

Limestone hills with planted pines in maquis

Embiids under stones + pine branches, often

amongst pine needles - small culture

C-4 SPAIN: Sotogrande, Cadiz 100 M III-13

Stones in brush-land cleared for pasture. Damp.

Embiids abundant. Many enclosed in "nests".

Appears to be both solieri + ramburi about half grown.

Camped III-15 in El Jadida
 TURKEY, N. AFRICA, SPAIN

Camped III-16 in Essaouira

Camped III-17 in Agadir

Night in hotel III-18 at Ouirgane

Night in hotel III-19 at clfrane

C-5 MOROCCO: 3 mi S. Larache III-15 few
Haploembia? under log in cork oak forest
 (raining too much to collect)

C-6 MOROCCO: 10 mi S. El-Jadida, bluffs above
 new harbor 20M III-15 Maguelo on limestone
 ledges part Haploembia common under stones.

C-7 MOROCCO: 12 mi N. Saji, cliff top above
 200M sea. Lime rocks on sandy, grassy soil along
 road. Part. Haploembia III-16

C-8 MOROCCO: 12 mi E. Essaouira 235 M III-16
 Overgrazed, dry slope with Juniper clumps
Embia n. sp.? common under stones, good
 culture More gregarious than Haploembia
 Almost dark.

C-9 MOROCCO: 13 MI. S. ESSAOURIA 100M III-17
Haploembia? under limestone on sand
 scattered native trees.

C-10 MOROCCO: Near TAGHAZOUT 20-100M III-17
Embia (N. of Agadir) n. sp. few. Under stones in very dry
 coastal scrub. Numerous Euphorbia + junipers

C-11 MOROCCO: OUIRGANE 990M Haploembia?
 under stones in Juniper area (natural) III-19
 few individuals collected here in 1981

C-12 MOROCCO: 25 km NE. KASBAH ~~FAFA~~ TADLA
 750 M III-19-84 few Haploembia? under
 stones at base of shrubs near limestone ledges
 in pasture land. Big galleries

Night of III-20 at VOLUBILIS

Nights of III-21-22-23
at Sotogrande

C-13 MOROCCO: LIXUS (ROMAN RUINS) near Larache
Under old building stones on hill tops near old
walls wind swept pasture 100M Hyploembia?

ALGERIA: 6 MI. W. SABRA III-30-84 465 M

Overshaded open space with scrub live oak +
junipers, subside under numerous limestone rocks
esp. in semi-shade of thickets. Scanty rain but
slightly damp under stones (shepherd boy with asparagus)
Small Embia and possibly Hyploembia.

ALGERIA: 10 MI. E. HASSI-FEDOUL 800M

2-IV-84 Mauritania Group. Open flat desert
Nomad tents. High wind from S, sleet
Numerous stones, chewed plant stubs. Large webs
under stones, esp. on under surfaces. Many $\frac{1}{2}$ grown
nymphs in a single colony. Depend on plant
debris blown under stones.

ALGERIA: just below BOGHAR

2-IV-84 Rocky (sandstone) pasture + ravines
little rain. Lucasi under stones - 1 nymph per
web. In grass bases at edges. About 30
 $\frac{1}{2}$ grown nymphs.

A second colony culture contains mostly mauritanica all from one colony (about 20 half grown nymphs in a web labyrinth. Some lucasi mixed in.

ALGERIA: 3 MI. N. KSAR EL BOUKHARI

722 M 2-IV-84 Prob lucasi

Large nymphs under stones in green grass at edge of RR - 1 per web.

Very near Boghar saw 1 O. fusca

ALGERIA: 3 MI. S. BOUSKÈNE 1010 M

2-IV-84 Mixed "lucasi" and "mauritanica"

on wind-swept ridge, open grassland
lucasi - one per web. mauritanica many in a labyrinth web under one stone

ALGERIA: BOUED M'SALEM, 10 MI NE

SIDI AISSA 790 M 2-IV-84 Mostly uniform

brown Embia almost mature. One per web, rather rare (could be romburi). Rolling, rocky hills, barren, overgrazed areas between wheat fields. Supposed type loc. of Embia silvestrii Davis

EMBIID FIELD NOTES 1984
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GREECE

ALGERIA: OULED M'SALEM 1070 M

17 MI. NE SIDI AISSA IV-2-84

Rocky meadows in pine zone. Gregarious
Embia under stones about half grown

DITTO but at 1115 M 20 MI. NE S.A.

Several lots of small Embia, gregarious

ALGERIA: 27 MI. N. M'SILA 2-IV-84

Flat stones on bluffs, over grazed. A few
samburi? and small "mauritanica"

ALGERIA: Just N of OUM EL BOUAGHI

890 M 3-IV-84 Limestone ridge planted

with pines. "maurit" under stones on grass

gregarious web - photo. Some late
pupult of Hyw. A-11

ALGERIA: 11.5 mi S. AIN BEIDA

3-IV-84 Ridges with natural pine forest

"Maurit" in gregarious web under stones on
open hill. About half grown

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TUNISIA: VICINITY OF BOU AMARIN 390 M
10 MI NE EL GUETTAR (NR GAUSA) 4-IV-84
Rocky hills, limestone scattered aqic (olives)
recent rain flowers sparse. Embriids rare 1 small
web per stone adult ♂ rearing in short webs under
edge of stone. Aptens ♂ of a. sp. A few
females cultured with 1 ♂. Foraging webs go up
sides of stone to feed on lichen crust. Webs
of last years brood larger + present. This
is an isolated area.

TUNISIA: MAKNASSY 200 M +- 5-IV-84
In town on side street very wet after
heavy rain. Apt. ♂♂ and ♀♀ (small culture)
under stones and garbage (concrete chunks)
near wall. No native stones in town.
Same as Bou Amarin species.

Same embriid (none collected) on rocky hills
about 10 mi E.

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SICILY: SEGESTA 8-IV-84

1-2 spp under limestone (ruins) in
shrub-grass area cold, windy, many embiids
still in winter webs. Wet season. One
sp. large, robust other (?) tiny, pale.
Often under same stones as ant nests.

SICILY: ABOVE CASTELAMARE (just S.)

8-IV-84

Embiids under limestone rocks in pasture
and amongst olive trees. from edge of
stones.

SICILY: 6 MI. S.W. CALTANISSETA 400M

10-IV-84 Haplo. under stones scattered beneath
Eucalyptus and at edge of native flora (by RR.)
Ophrys here. Webs in dead grass and E. Leaves
 $\frac{1}{3}$ grown reddish tan

SICILY: 3 MI. NW CALASCIBETTA 450 M

(near Enna) 10-IV-84 Haplo under flat stones
semi-shade and open in grass full S. exposure
Numerous $\frac{1}{3}$ grown + smaller, reddish-tan
Seems to be same as above

EMBIID FIELD NOTES 1984
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SICILY: TAORMINA ^{200M}_{300M} 11-IV-84

Few Haplo? under shist stones in native scrub on ridge above town

S. ITALY: NR GRIMALDI 135 M 13-IV-84

Haplo? under small stones beneath oaks in small valley in rugged mtns. Very wet

GREECE: 3 MI. SW TRAPEZA 15-IV-84

on rd to Kalavrita

Haplo? under stones in grass near magnis Olives, etc.

GREECE: S. Base Mt PARNIS (N. of Athens)

450 M 16-IV-84 Embia or large Haplo

rare under stones in Magnis with pine plantations. 1 embiid per web.

Same but at 1000M, glades in scrubby fir forest. Above sp.? under stones - esp. small ones - on sunny slopes. 1 embiid per web

GREECE: 6 MI NE STENO (20 MI. E. TRIPOLI)

PELOPONISSOS, 600 M 19-IV-84 Stones on open

hillside below monastery. Limestone low shrubs

Embia? some small, black, banded. in webs at edge of stone 1 per web. very wet.

EM^B ID FIELD NOTES 1984
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GREECE

GREECE: Below Castle, MISTRAS 475M 20-IV-84

A few similar to *Stero* lot under stones in
weedy olive grove. Took long shots of place, showing
mtns in back ground.

TURKEY

16 MI. W KALE 500M 21-V-84

Open grove of gray-leaved oaks in flats in
midst of maquis (scrub oak madrone etc).
Soil reddish, cracks. Dry, big webs radiate on
soil surface from edges of stone. 2 sp. Hygro
excavated about 3" down. One large black with
purple-black membranes, no bands; other paler
& banded. Several adult ♀ / adult ♂

ARIF 21-V Rugged mtns with native
pines on winter slopes, scrub on west ^{facing} slopes

3 banded ♀ collected in large webs in dry soil
beneath limestone rocks on steep, open pasture
slope. Possible salicis as well.

10 Mi N.W. FETHIYE 20 M 20-V

a few banded adult ♀ under rocks in semi
shade of pines in steep ravine above beach
in National Park. Dry.

4 Mi N.W. PINARCIK (SW side of lake)
Campground nearby. Hygro salicis? under stone
in dry oak woodland 19-V

TURKEY

10 mi S. TROY 16-V

solieri? under stones near pines ~~and~~ semi-
shade. Magnolia across road Cistus in bloom
Very dry

Acropolis of PERGAMON 17-V

A few Haplo, one banded under stones in
ruins. Very dry but webs common

FETHIYE 30 M 20-V

cleared, grassy, steep slope below large
Lycian grave on cliff. Huge webs on
ground surface, covered with plant debris
in full afternoon sun. Lead to subterranean
burrows. Stones not essential. Large all black &
cultured. 1 adult ♂ collected